

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P453462

Luminaire Tested: **GLAN-SA4C-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23802 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

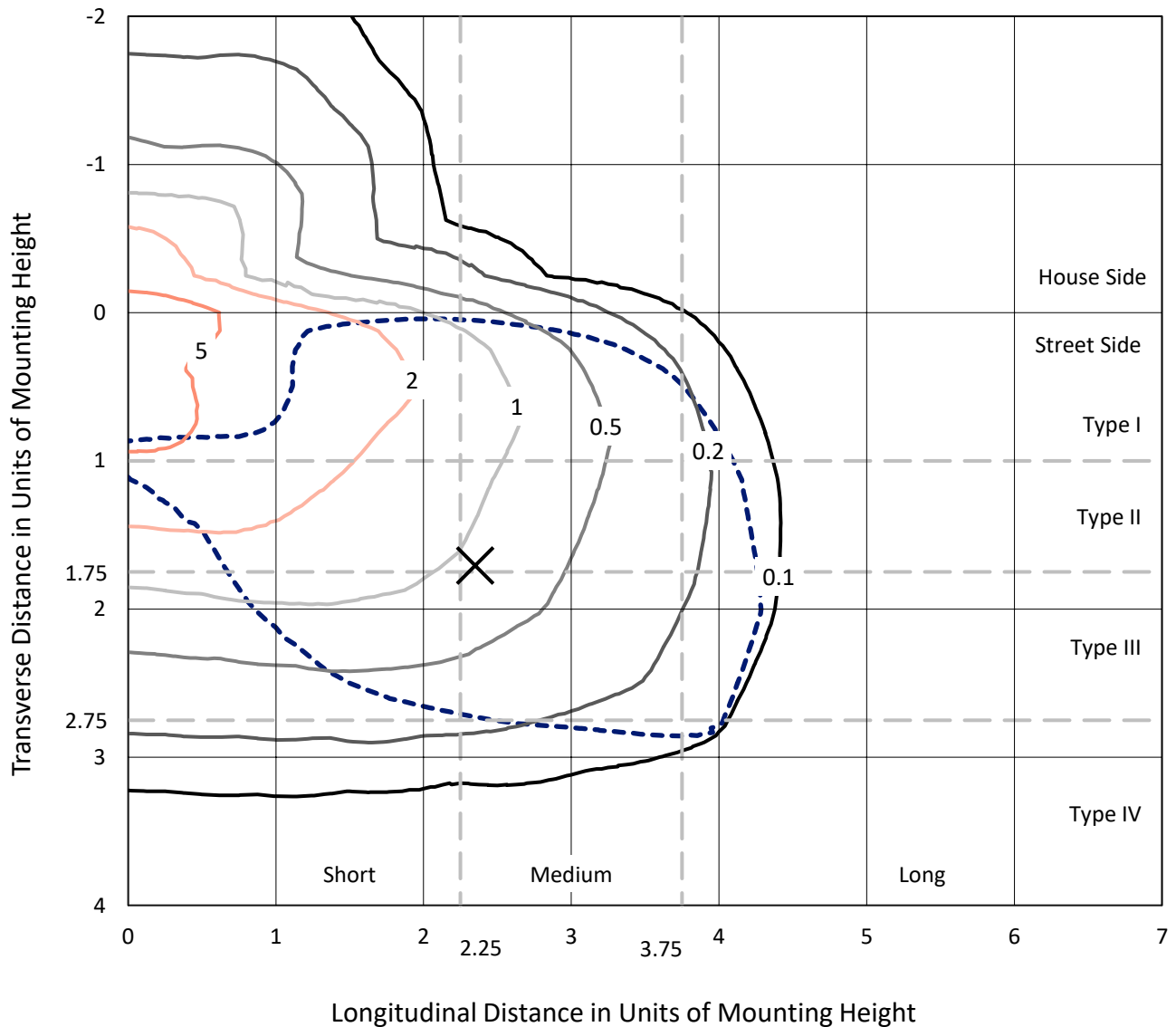
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

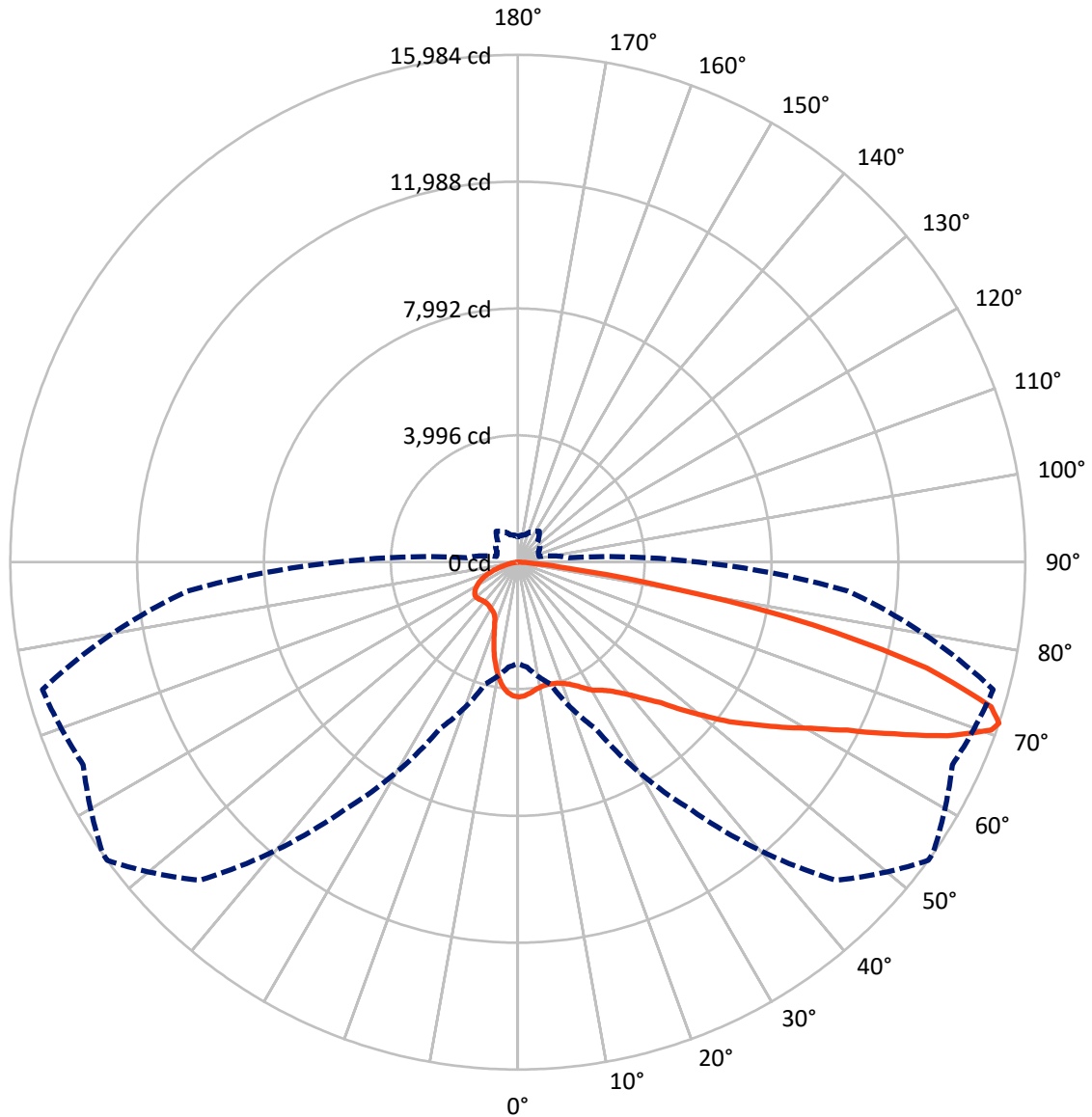
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4297.3	0.0	4297.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19504.7	0.0	19504.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	23802.0	0.0	23802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.6
10°-20°	999.3	4.2
20°-30°	1663.8	7.0
30°-40°	2460.3	10.3
40°-50°	3465.3	14.6
50°-60°	4640.3	19.5
60°-70°	5848.7	24.6
70°-80°	3994.6	16.8
80°-90°	351.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23802.0	100.0
0°-180°	23802.0	100.0

Coefficient of Utilization



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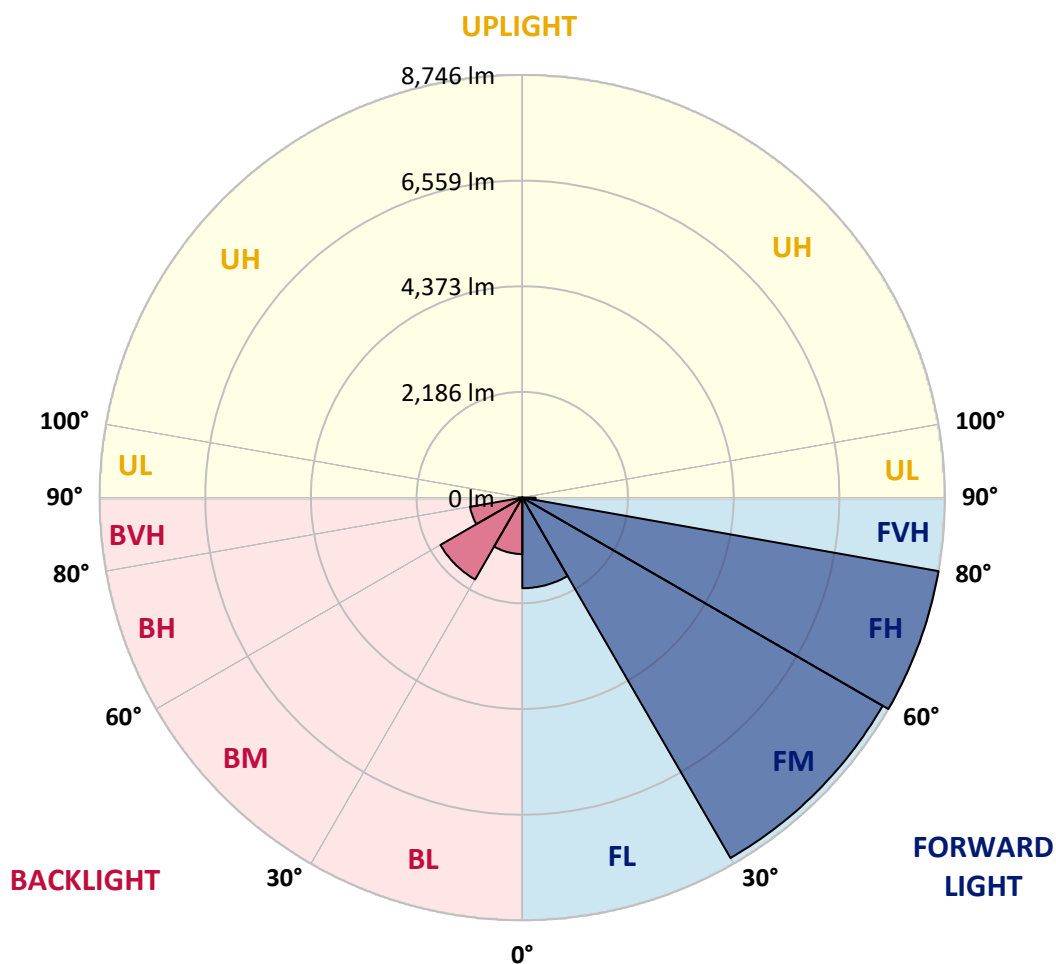
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1873.6	7.9			
FM	(30°-60°)	8610.7	36.2			
FH	(60°-80°)	8745.8	36.7			G4/12000
FVH	(80°-90°)	274.6	1.2			G3/500
BL	(0°-30°)	1167.9	4.9	B3/2500		
BM	(30°-60°)	1955.1	8.2	B2/2500		
BH	(60°-80°)	1097.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	76.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6
2.5°	4102.6	4121.9	4127.1	4139.9	4166.9	4188.8	4210.6	4208.1	4238.9	4251.8	4263.3
5°	3920.1	3925.2	3944.5	3970.2	4017.8	4078.2	4137.3	4138.6	4214.5	4274.9	4304.5
7.5°	3786.4	3803.1	3815.9	3842.9	3893.1	3958.6	4052.5	4060.2	4195.2	4314.8	4377.8
10°	3698.9	3718.2	3732.4	3765.8	3815.9	3889.2	3990.8	4004.9	4181.1	4377.8	4488.3
12.5°	3619.2	3638.5	3651.4	3695.1	3760.6	3850.6	3965.1	3981.8	4186.2	4451.1	4609.2
15°	3668.1	3683.5	3678.4	3691.2	3734.9	3837.8	3975.3	3992.1	4205.5	4521.8	4728.8
17.5°	3885.4	3898.2	3855.8	3806.9	3786.4	3862.2	4007.5	4025.5	4244.1	4595.1	4850.9
20°	4205.5	4240.2	4147.6	4038.3	3939.3	3949.6	4074.3	4093.6	4298.1	4668.3	4975.6
22.5°	4622.1	4647.8	4534.6	4354.6	4172.1	4078.2	4174.6	4186.2	4379.1	4763.5	5111.9
25°	5111.9	5127.3	4970.5	4739.0	4475.5	4298.1	4312.2	4332.8	4512.8	4871.5	5232.8
27.5°	5587.6	5636.5	5455.2	5172.3	4825.2	4529.5	4501.2	4514.1	4658.0	4931.9	5316.3
30°	6152.0	6148.2	5956.6	5628.7	5183.9	4781.5	4679.9	4677.3	4736.5	4961.5	5376.7
32.5°	6602.0	6654.7	6467.0	6109.6	5594.0	5042.5	4803.3	4798.2	4796.9	5012.9	5466.7
35°	7113.7	7121.4	6949.1	6589.2	6037.6	5370.3	4975.6	4949.9	4920.3	5123.5	5588.9
37.5°	7571.4	7607.4	7449.3	7045.6	6473.4	5711.0	5212.2	5195.5	5105.5	5315.0	5784.3
40°	7928.8	7955.8	7860.7	7476.3	6902.9	6078.7	5513.0	5482.2	5372.9	5628.7	6045.3
42.5°	8045.8	8101.1	8138.4	7949.4	7396.6	6514.6	5883.3	5844.7	5761.2	6104.4	6346.2
45°	8054.8	8142.3	8339.0	8348.0	7892.8	7036.6	6315.3	6288.3	6281.9	6713.9	6769.2
47.5°	7986.7	8075.4	8405.8	8584.5	8335.1	7563.7	6938.9	6896.4	6900.3	7467.3	7243.6
50°	7822.1	7927.6	8328.7	8736.3	8681.0	8111.4	7597.1	7583.0	7662.7	8327.4	7736.0
52.5°	7512.3	7639.6	8249.0	8831.4	8938.1	8583.3	8345.4	8305.5	8507.4	9260.8	8274.7
55°	6654.7	6846.3	7957.1	8884.1	9182.4	9034.5	9019.1	9091.1	9358.5	10279.1	8867.4
57.5°	6207.3	6351.3	7323.3	8893.1	9491.0	9559.1	9805.9	9823.9	10291.9	11360.3	9537.2
60°	5963.0	6090.3	6976.1	8834.0	9921.7	10208.4	10610.8	10675.1	11203.5	12531.6	10231.5
62.5°	5749.6	5858.9	6767.9	8629.5	10407.6	11171.3	11653.5	11684.3	12238.5	13825.0	10916.8
65°	5246.9	5371.6	6348.7	8425.1	10826.8	12374.8	13036.9	13000.9	13340.3	14941.0	11346.2
67.5°	4569.3	4727.5	5565.7	7719.3	11033.8	13690.0	14595.1	14550.1	14428.0	15672.5	11469.6
70°	3704.1	3788.9	4564.2	6499.2	10207.1	14380.4	15825.5	15778.0	15101.7	15769.0	10885.9
71°	3187.2	3319.6	3974.1	5772.7	9519.2	14169.6	15983.7	15970.8	15103.0	15502.8	10446.2
72.5°	2487.8	2568.8	3147.4	4472.9	8090.8	12971.3	15592.8	15641.7	14775.1	14763.6	9539.8
75°	1573.7	1609.7	1974.8	2633.1	4439.5	9186.2	13310.7	13443.2	13119.2	12084.2	7094.4
77.5°	914.1	960.4	1182.8	1551.8	1918.2	4985.9	9524.4	9668.4	9115.5	6653.4	2904.4
80°	532.3	583.7	779.1	901.3	880.7	1850.1	4849.6	5095.2	3947.1	1680.4	815.1
82.5°	295.7	330.4	547.7	549.0	469.3	604.3	1526.1	1596.8	1126.3	677.6	333.0
85°	214.7	243.0	353.6	320.1	225.0	259.7	531.0	556.7	455.1	285.4	108.0
87.5°	75.9	108.0	194.1	154.3	61.7	54.0	153.0	124.7	115.7	79.7	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6
2.5°	4269.8	4272.3	4259.5	4236.3	4213.2	4183.6	4150.2	4124.5	4112.9	4111.6	4110.3
5°	4316.1	4322.5	4273.6	4201.6	4121.9	4024.2	3940.6	3845.5	3821.1	3782.5	3794.1
7.5°	4390.6	4386.8	4290.3	4137.3	3950.9	3743.9	3569.1	3467.5	3362.1	3332.5	3333.8
10°	4497.3	4472.9	4290.3	4006.2	3695.1	3387.8	3143.5	2989.2	2905.7	2836.2	2810.5
12.5°	4610.5	4548.8	4249.2	3822.4	3365.9	2989.2	2726.9	2518.7	2464.7	2408.1	2409.4
15°	4718.5	4615.6	4168.2	3563.9	3011.1	2563.7	2309.1	2184.4	2167.7	2174.1	2172.8
17.5°	4816.2	4663.2	4044.8	3275.9	2597.1	2198.5	2063.5	2072.5	2117.5	2149.7	2153.5
20°	4915.2	4691.5	3860.9	2890.2	2206.2	1977.4	1982.5	2053.2	2121.4	2165.1	2171.5
22.5°	5009.0	4704.3	3644.9	2517.4	1923.4	1883.5	1959.4	2035.2	2102.1	2144.5	2151.0
25°	5070.8	4674.8	3338.9	2127.8	1784.5	1850.1	1929.8	1994.1	2050.7	2094.4	2104.7
27.5°	5087.5	4579.6	2959.7	1812.8	1720.3	1818.0	1891.2	1938.8	1982.5	2023.7	2031.4
30°	5078.5	4439.5	2543.1	1627.7	1683.0	1780.7	1837.2	1872.0	1924.7	1956.8	1963.2
32.5°	5064.3	4276.2	2108.5	1528.7	1652.1	1746.0	1779.4	1810.2	1809.0	1796.1	1805.1
35°	5069.5	4080.8	1756.3	1469.5	1625.1	1720.3	1748.5	1710.0	1599.4	1594.3	1589.1
37.5°	5096.5	3887.9	1500.4	1428.4	1611.0	1716.4	1731.8	1554.4	1456.7	1411.7	1400.1
40°	5165.9	3662.9	1332.0	1397.5	1609.7	1746.0	1656.0	1476.0	1288.3	1200.8	1194.4
42.5°	5258.5	3441.8	1229.1	1378.3	1625.1	1791.0	1625.1	1365.4	1161.0	1109.5	1101.8
45°	5396.0	3188.5	1172.5	1369.3	1648.3	1807.7	1614.8	1284.4	1109.5	1068.4	1068.4
47.5°	5551.6	2946.8	1141.7	1362.8	1677.8	1796.1	1523.5	1258.7	1085.1	1090.3	1114.7
50°	5705.9	2737.2	1118.5	1348.7	1703.5	1789.7	1486.3	1257.4	1091.5	1157.1	1200.8
52.5°	5884.6	2589.4	1090.3	1325.5	1703.5	1748.5	1474.7	1283.1	1109.5	1128.8	1148.1
55°	6100.6	2543.1	1054.3	1275.4	1672.7	1645.7	1468.3	1320.4	1122.4	1077.4	1085.1
57.5°	6386.0	2617.7	1019.6	1212.4	1602.0	1539.0	1465.7	1330.7	1092.8	1055.6	1047.8
60°	6717.7	2765.5	1009.3	1148.1	1505.5	1447.7	1450.3	1301.1	1051.7	1013.1	1019.6
62.5°	6950.4	2854.2	1002.8	1099.3	1400.1	1347.4	1413.0	1265.1	1033.7	1000.3	1006.7
65°	6950.4	2746.2	943.7	1024.7	1263.8	1226.5	1368.0	1220.1	1010.6	972.0	965.6
67.5°	6686.9	2431.2	853.7	912.8	1113.4	1089.0	1305.0	1166.1	975.8	946.3	930.8
70°	6000.3	1843.7	740.6	781.7	923.1	945.0	1224.0	1092.8	918.0	882.0	858.8
71°	5698.2	1605.8	693.0	714.8	849.8	882.0	1185.4	1062.0	892.3	840.8	799.7
72.5°	5115.8	1352.5	621.0	630.0	726.4	784.3	1104.4	1002.8	843.4	770.1	723.8
75°	3886.6	987.4	500.1	495.0	537.4	622.3	934.7	893.6	739.3	640.3	613.3
77.5°	1679.1	537.4	374.1	378.0	365.1	471.8	735.4	767.6	633.8	520.7	496.3
80°	509.1	309.9	255.9	261.0	244.3	316.3	518.1	601.7	509.1	405.0	371.6
82.5°	261.0	185.1	174.9	172.3	155.6	178.7	313.7	411.4	363.8	253.3	223.7
85°	113.1	99.0	86.1	83.6	73.3	64.3	111.9	205.7	192.9	141.4	135.0
87.5°	28.3	25.7	16.7	15.4	9.0	1.3	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)